MISSISSIPPI STATE UNIVERSITY™
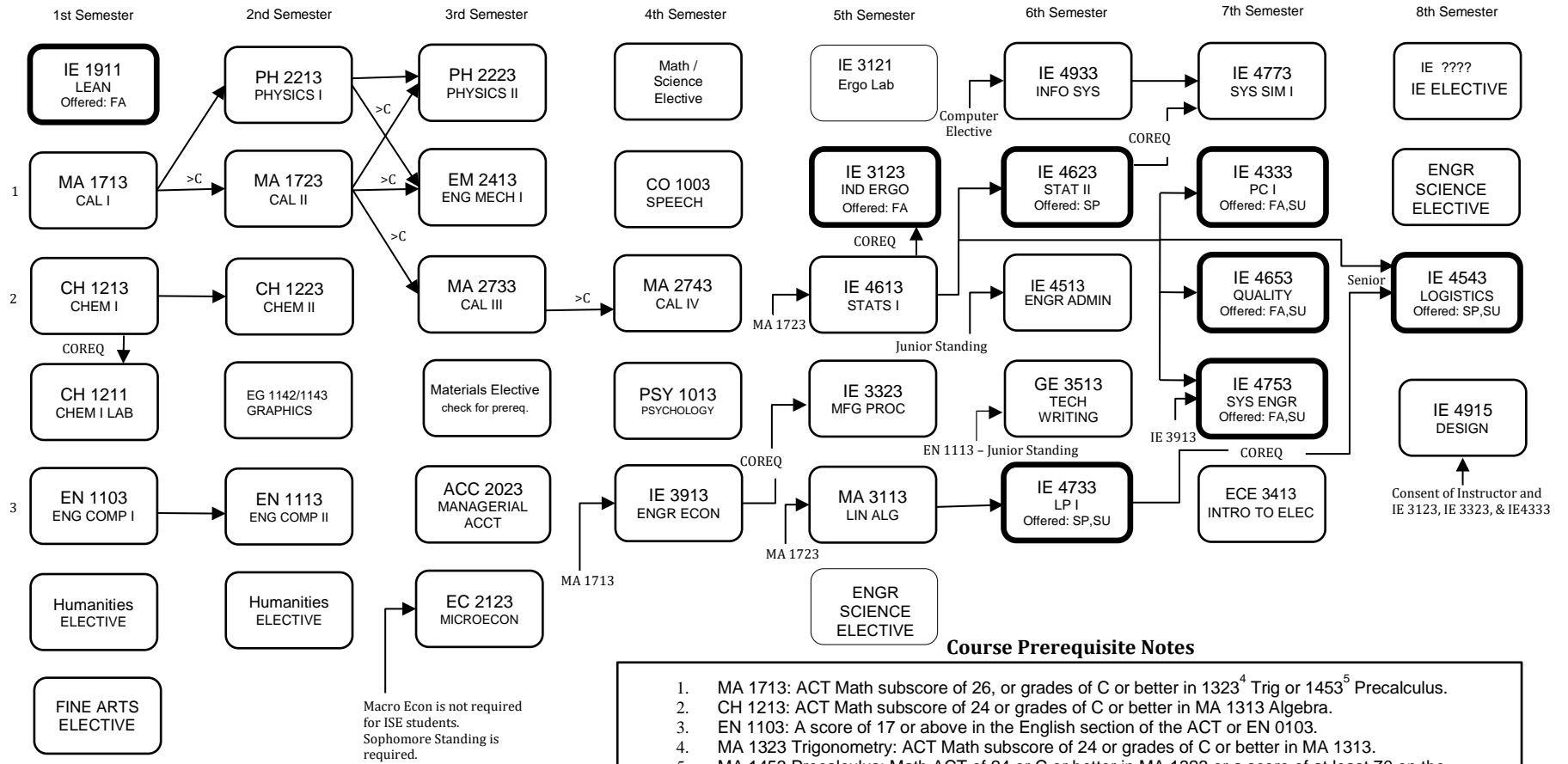JAMES WORTH
BAGLEY
COLLEGE OF ENGINEERING

INDUSTRIAL & SYSTEMS
ENGINEERING

Name:

NetID:

*click upper right corner to mark completed

INDUSTRIAL ENGINEERING CURRICULUM FLOW SHEET

1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester	8th Semester

IE 1911 LEAN Offered: FA

PH 2213 PHYSICS I

PH 2223 PHYSICS II

Math / Science Elective

IE 3121 Ergo Lab

Computer Elective

IE 4933 INFO SYS

IE 4773 SYS SIM I

IE ???? IE ELECTIVE

1. **MA 1713** CAL I → >C → **MA 1723** CAL II → >C → **EM 2413** ENG MECH I

>C

CO 1003 SPEECH

COREQ

IE 3123 IND ERGO Offered: FA

IE 4623 STAT II Offered: SP

IE 4333 PC I Offered: FA,SU

ENGR SCIENCE ELECTIVE

COREQ

2. **CH 1213** CHEM I → **CH 1223** CHEM II

>C

MA 2733 CAL III → >C → **MA 2743** CAL IV

MA 1723

IE 4613 STATS I

Junior Standing

IE 4513 ENGR ADMIN

IE 4653 QUALITY Offered: FA,SU

Senior

IE 4543 LOGISTICS Offered: SP,SU

COREQ

CH 1211 CHEM I LAB

EG 1142/1143 GRAPHICS

Materials Elective check for prereq.

PSY 1013 PSYCHOLOGY

COREQ

IE 3323 MFG PROC

GE 3513 TECH WRITING

IE 3913

IE 4753 SYS ENGR Offered: FA,SU

COREQ

IE 4915 DESIGN

EN 1113 – Junior Standing

3. EN 1103 ENG COMP I → EN 1113 ENG COMP II

ACC 2023 MANAGERIAL ACCT

MA 1713

IE 3913 ENGR ECON

COREQ

MA 3113 LIN ALG

MA 1723

IE 4733 LP I Offered: SP,SU

ECE 3413 INTRO TO ELEC

Consent of Instructor and IE 3123, IE 3323, & IE4333

Humanities ELECTIVE

Humanities ELECTIVE

EC 2123 MICROECON

ENGR SCIENCE ELECTIVE

FINE ARTS ELECTIVE

Macro Econ is not required for ISE students. Sophomore Standing is required.

Course Prerequisite Notes

1. MA 1713: ACT Math subscore of 26, or grades of C or better in 1323[4] Trig or 1453[5] Precalculus.
2. CH 1213: ACT Math subscore of 24 or grades of C or better in MA 1313 Algebra.
3. EN 1103: A score of 17 or above in the English section of the ACT or EN 0103.
4. MA 1323 Trigonometry: ACT Math subscore of 24 or grades of C or better in MA 1313.
5. MA 1453 Precalculus: Math ACT of 24 or C or better in MA 1323 or a score of at least 70 on the Precalculus Qualifying Exam.

PRE 2020 Academic Catalogs

To take a required IE course, students must have a grade of C or better in each prerequisite IE course.

MATHEMATICS (15 HRS)
MA 1713 CALCULUS I
MA 1723 CALCULUS II
MA 2733 CALCULUS III
MA 2743 CALCULUS IV
MA 3113 LINEAR ALGEBRA

CHEMISTRY (7 HOURS) CH
1213   CHEMISTRY I
CH 1211   INVESTIGATIONS IN CHEMISTRY I
CH 1223   CHEMISTRY II

PHYSICS (6 HOURS)
PH 2213 PHYSICS I
PH 2223 PHYSICS II

MATH/SCIENCE   ELECTIVE   (3 HOURS)
_____3   MATH/SCIENCE ELECTIVE*

FINE ARTS (3 HOURS)
_____3   FINE ARTS

ELECTIVE*HUMANITIES (6 HOURS)
_____3   HUMANITIES ELECTIVE*
_____3   HUMANITIES ELECTIVE*

COMMUNICATION (14 HOURS)
EN 1103   ENGLISH COMPOSITION I EN
1113   ENGLISH COMPOSITION II EG
1142   ENGINEERING GRAPHICS CO
1003   FUND OF PUBLIC SPEAKING GE
3513   TECHNICAL WRITING

OTHER (3 HOURS)
ACC 2023 MANAGERIAL ACCOUNTING

INDUSTRIAL ENGINEERING (50 HRS)
IE 1911   INTRODUCTION TO IE
IE 3123   INDUSTRIAL ERGONOMICS
IE 3121   INDUSTRIAL ERGONOMICS LAB
IE 3323   MANUFACTURING PROCESSES
IE 3913   ENGINEERING ECONOMY I
IE 4333   PRODUCTION CONTROL SYSTEMS I
IE 4513   ENGINEERING ADMINISTRATION
IE 4543   LOGISTICS ENGINEERING
IE 4613   ENGINEERING STATISTICS I
IE 4623   ENGINEERING STATISTICS II
IE 4653   QUALITY ENGINEERING
IE 4733   LINEAR PROGRAMMING I
IE 4753   SYSTEMS ENGINEERING & ANALYSIS
IE 4773   SYSTEMS SIMULATION I
IE 4915   DESIGN OF INDUSTRIAL SYSTEMS
IE 4934   INFORMATION SYSTEMS FOR IE
IE ___3   IE ELECTIVE*

OTHER ENGINEERING (15 HOURS)
ECE 3413 INTRO TO ELECTRONIC CIRCUITS
EM 2413   ENGINEERING MECHANICS I
__ ___3   ENGINEERING SCIENCE ELECTIVE*
__ ___3   ENGINEERING SCIENCE ELECTIVE*
__ ___3   MATERIALS ELECTIVE*

SOCIAL SCIENCES (6 HOURS)
EC 2123   PRINCIPLES OF MICROECONOMICS
PSY 1013   GENERAL PSYCHOLOGY

*Listed in Columns 3 and 4

HUMANITIES ELECTIVES
Two courses of any of the following:
AAS 1063 Intro to African American Studies
ARC 2313 History of Architecture I
ARC 3313 History of Architecture II
ARC 3323 History of Architecture III
EN 2203   Introduction to Literature
EN 2213   English Literature
EN 2223   English Literature
EN 2243   American Literature
EN 2253   American Literature
EN 2273   World Literature
EN 2283   World Literature
FL**1113 Language I
FL**1123 Language II
FL**2133 Language III
FL**2143 Language IV
HI 1063   Early U.S. History
HI 1073   Modern U.S. History
HI 1163   World History before 1500
HI 1173   World History since 1500
HI 1213   Early Western World
HI 1223   Modern Western World
HI 1313   East Asian Civilizations to 1300
HI 1323   East Asian Civilizations since 1300
HI 4683   Europe: The First World War to Hitler
HON 1163 The Quest Begins
HON 3183 Honors Seminar in the Humanities
PHI 1103   Introduction to Philosophy
PHI 1113   Introduction to Logic
PHI 1123   Introduction to Ethics
PHI 3023   History of Western Philosophy: Part I
PHI 3033   History of Western Philosophy: Part II
PHI 3153   Aesthetics
REL 1103   Introduction to Religion
REL 3213   World Religions: Part I
REL 3223   World Religions: Part II
** French (FLF), German (FLG), Greek (FLH), Japanese (FLJ),
Latin (FLL), Russian (FLR), and Spanish (FLS).

ENGINERING SCIENCE ELECTIVE
ECE 3424   Intermediate Electronic Circuits
EM 2433   Engineering Mechanics II
EM 3213   Mechanics of Materials
EM 3313   Fluid Mechanics
ME 3513   Thermodynamics I

IE DESIGN ELECTIVE
Any three-hour non-required industrial engineering course.

FINE ARTS ELECTIVE
ARC 1013 Architectural Appreciation
ART 1013 Art History I
ART 1023 Art History II
ART 1113 Art Appreciation
BCS 1013 Architectural Appreciation
CO 1503   Introduction to Theatre
HON 3173 Honors Seminar in Fine Arts
ID 3643   History of Interiors
LA 1803   Landscape Appreciation
MU 1113   History and Appreciation of Music
MU 1133   The History of Rock and Roll
MU 2213   History and Literature of Music I
MU 2323   History and Literature of Music II
PE 1323   History and Appreciation of Dance
PSS 2343   Floral Design
TKI 2413   History and Appreciation of the Artcrafts

MATERIALS ELECTIVE
CHE 3413 Engineering Materials
ME 3403   Materials for ME Design

MATH/SCIENCE ELECTIVE
PH 2233   Physics III
MA 3253   Differential Equations I

EFFECTIVE DATE January 1, 2018